

State Nontidal Wetland Permit
(Case Number 200961402, 09-NT-2068)
for the
Runway 4-22 Obstruction Removal
at
Easton / Newnam Field Airport



April 15, 2010



Agenda

- **Project Background**
- **14 CFR Part 77**
- **Wetland Impacts**
- **Mitigation**
- **Environmental Concerns for Hearing**
- **Public Hearing**

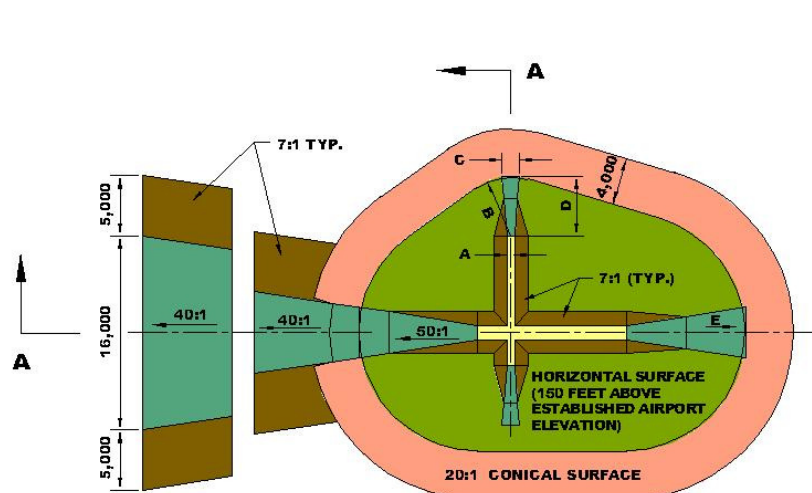
Project Background

- Life of a Project: Planning – Environmental – Design/Permitting – Construction
- Planning: 
 - Preliminary Obstruction Analysis: 1998
- Environmental: 
 - Environmental Assessment for the Clearing FAR Part 77 Airport Surfaces
 - Specific to Runway 4-22: estimated 4.71 acres of wetlands impacted
 - Public Hearing and Information Workshop: March 27, 2003
 - FAA issued Finding of No Significant Impact: June 26, 2006
- Design / Permitting
 - Obstruction Analysis Design initiated in September 2006, completed in February 2010
 - Joint Permit Application submitted in May 2009
 - 3.61 acres of forested wetlands to be converted to shrub emergent wetlands
 - 1.41 wetland buffer impacted
- Construction
 - TBD

14 CFR Part 77 Surfaces

- Set of “Imaginary surfaces” that extend outward and upward from the ends and sides of the usable runways at an airport.
- These imaginary surfaces delineate the allowable heights for objects to maintain safe flight in and out of an airport.
- 14 CFR Part 77 allows the “FAA to identify potential aeronautical hazards in advance thus preventing or minimizing the adverse impacts to the safe and efficient use of navigable airspace”.
- Identifies mitigating measures to enhance safe air navigation.

14 CFR Part 77 Surfaces



PLAN VIEW

DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY			PRECISION INSTRUMENT RUNWAY
		A	B	A	C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	500	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
C	APPROACH SURFACE WIDTH AT END	VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH			PRECISION INSTRUMENT APPROACH
		A	B	A	C	D	
		1,250	1,500	2,000	3,500	4,000	
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	-
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	-

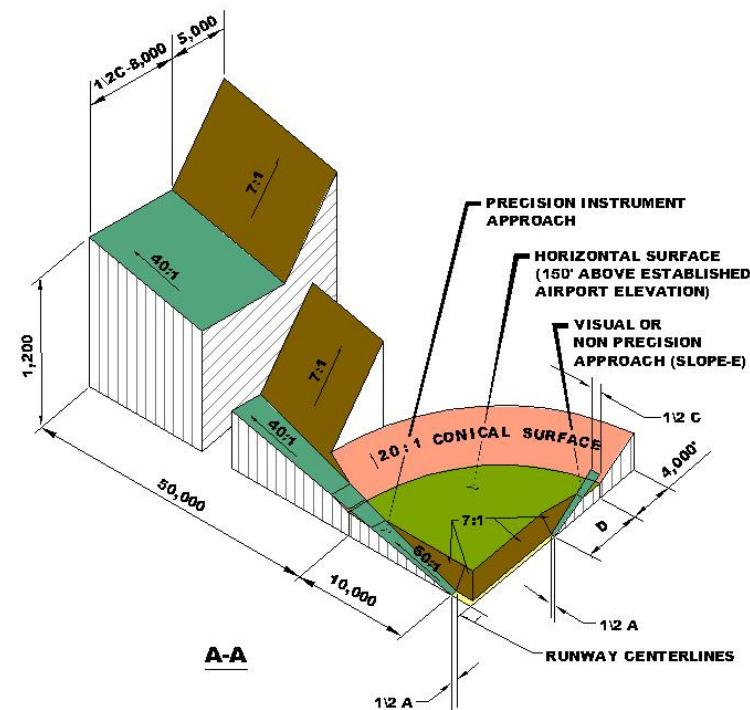
A- UTILITY RUNWAYS

B- RUNWAYS LARGER THAN UTILITY

C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE

D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE

* PRECISION INSTRUMENT APPROACH SLOPE IS 50:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET

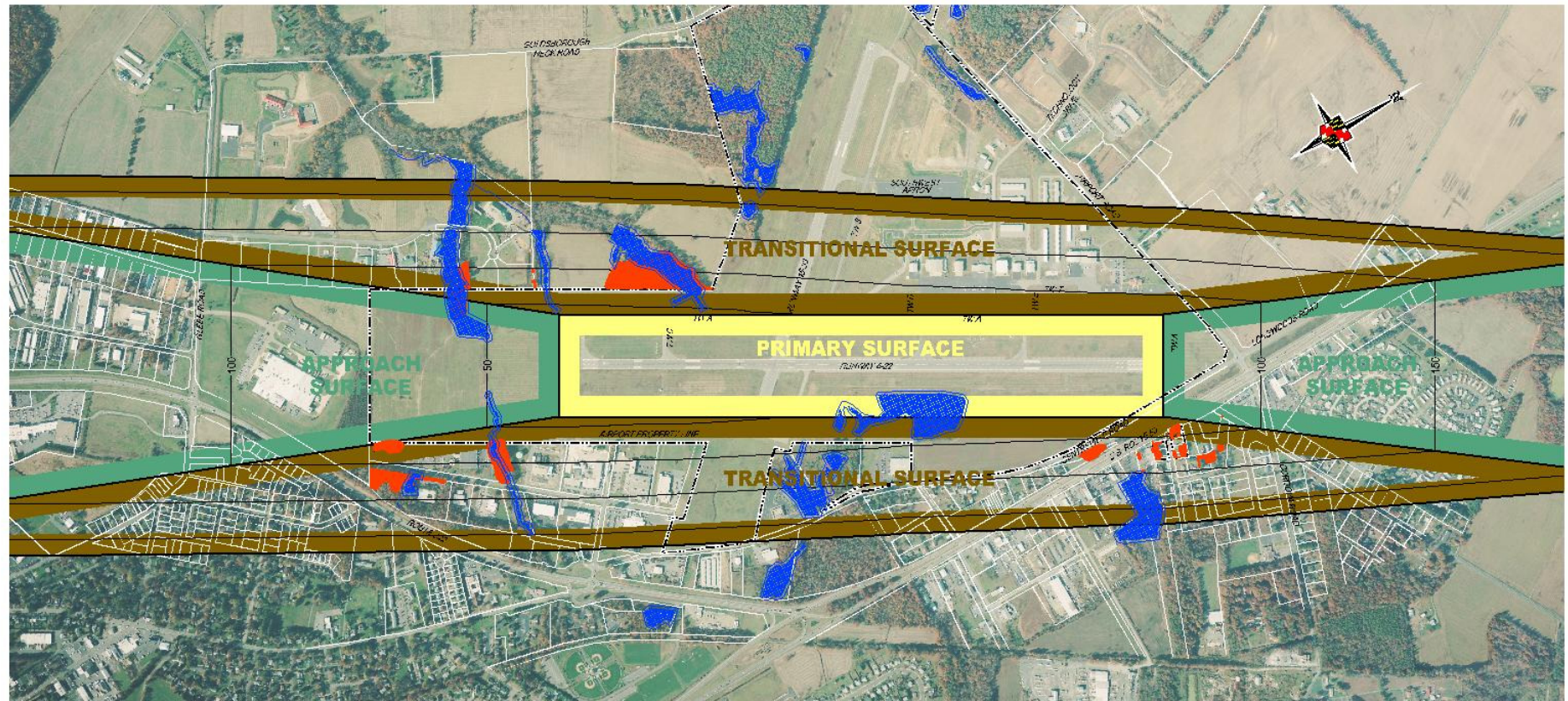


ISOMETRIC VIEW



14 CFR PART 77 SURFACES LEGEND

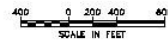
PRIMARY SURFACE.....	
APPROACH SURFACE.....	
TRANSITIONAL SURFACE.....	
HORIZONTAL SURFACE.....	
CONICAL SURFACE.....	

Runway 4-22: 14 CFR FAR Part 77



TREES OBSTRUCTIONS AND WETLANDS LEGEND

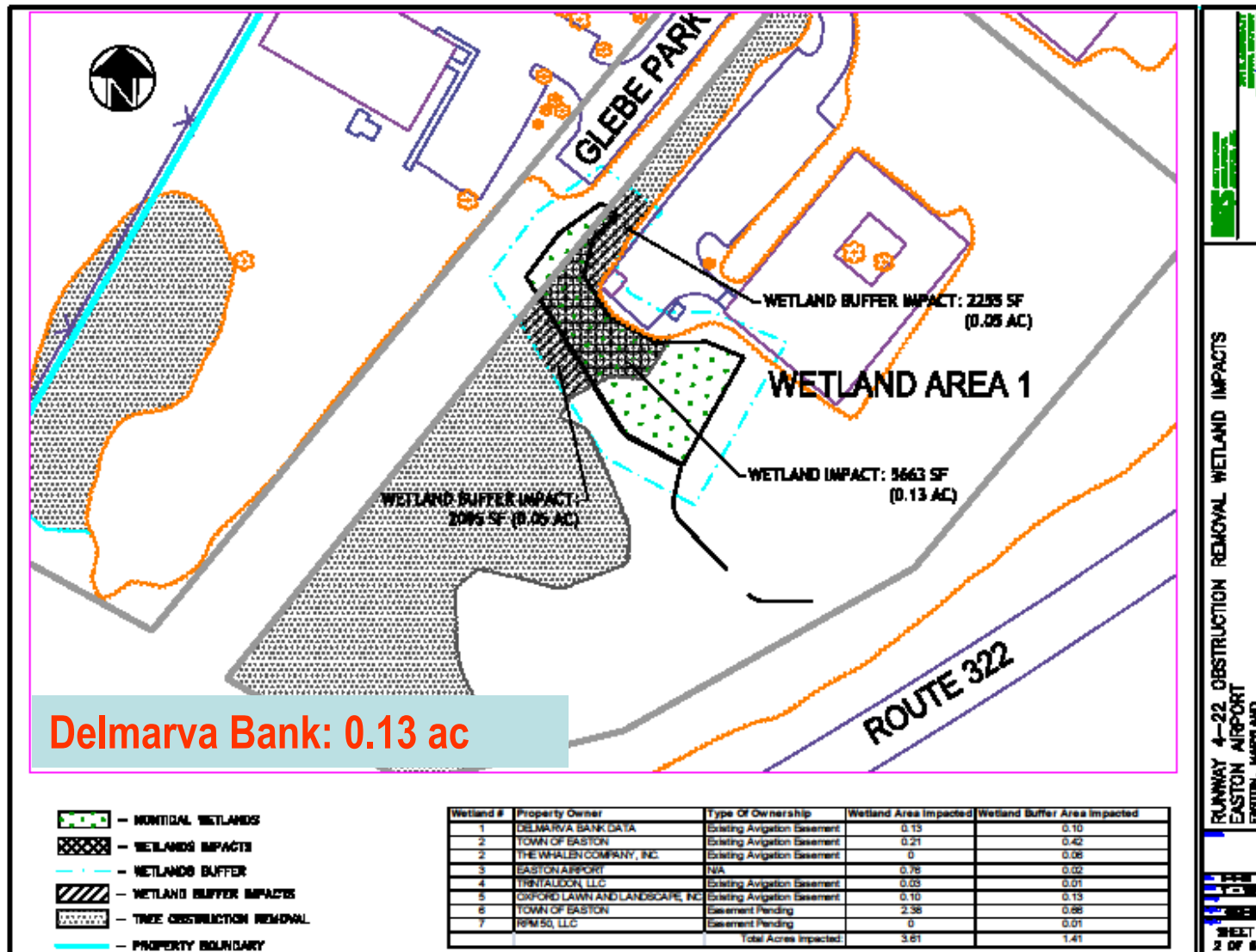
-  EXISTING RUNWAY 4-22 TREE OBSTRUCTIONS
(TO BE REMOVED 2010)
-  WETLANDS (WITH 25' BUFFER)



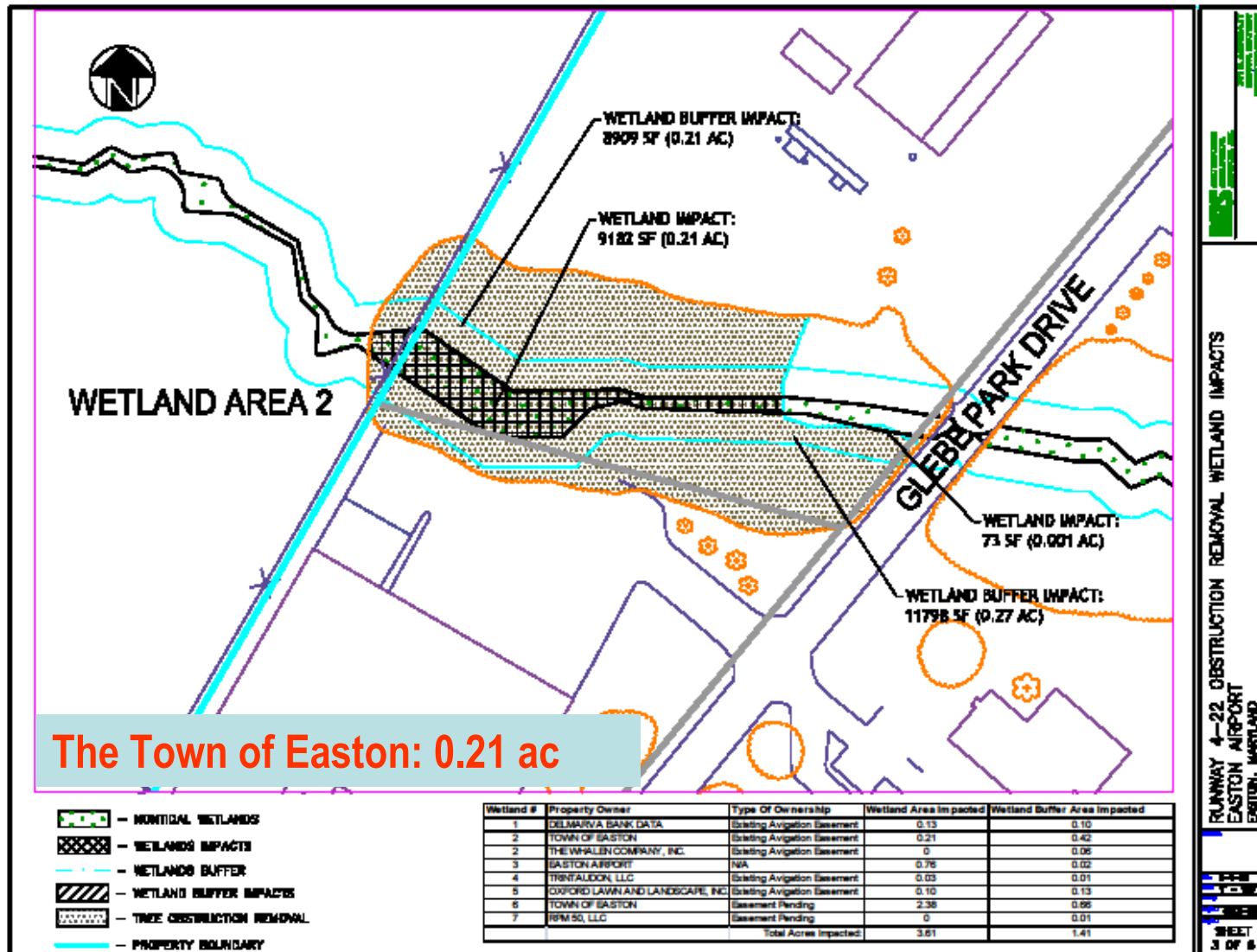
Wetland Impacts



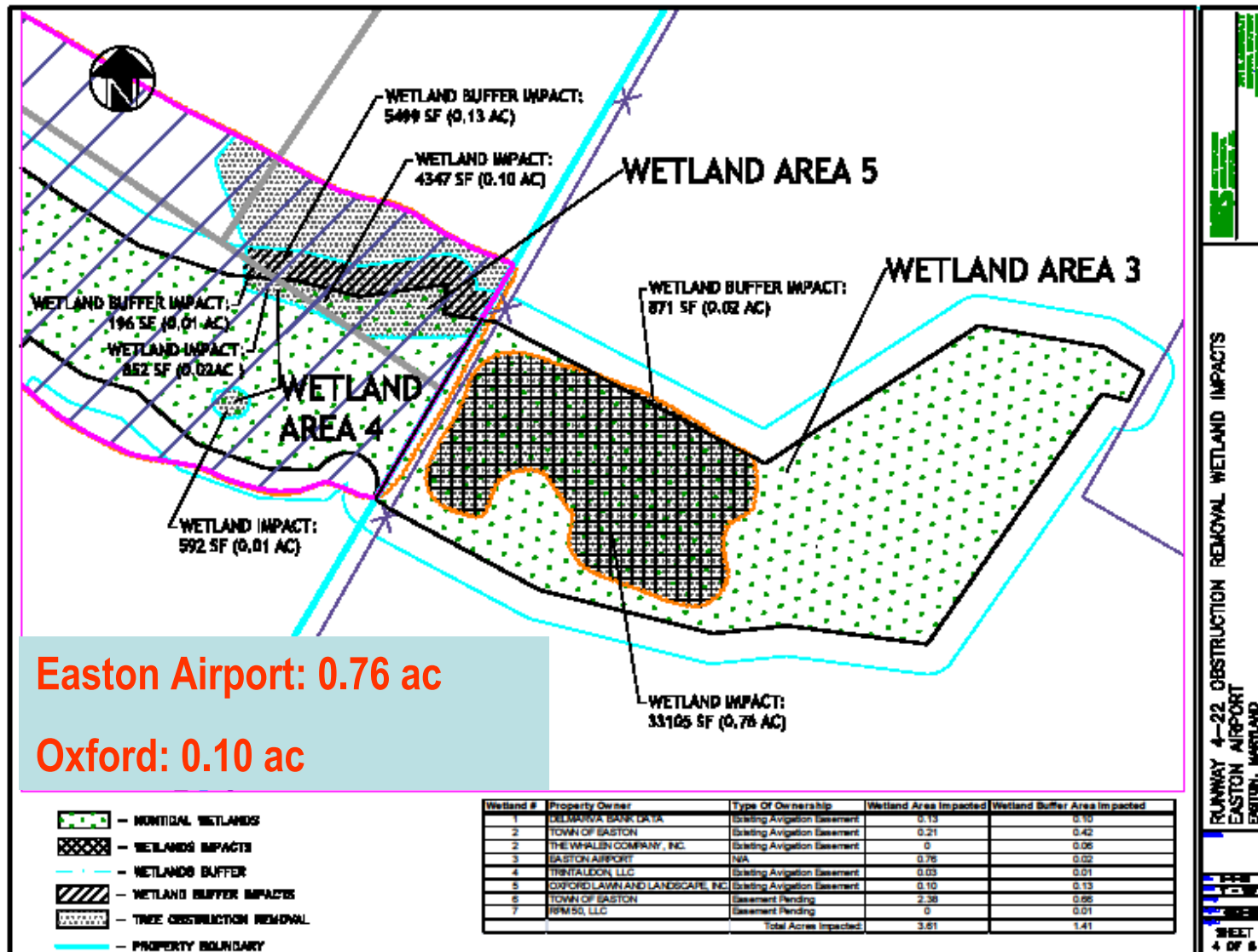
Wetland Impacts: Area 1



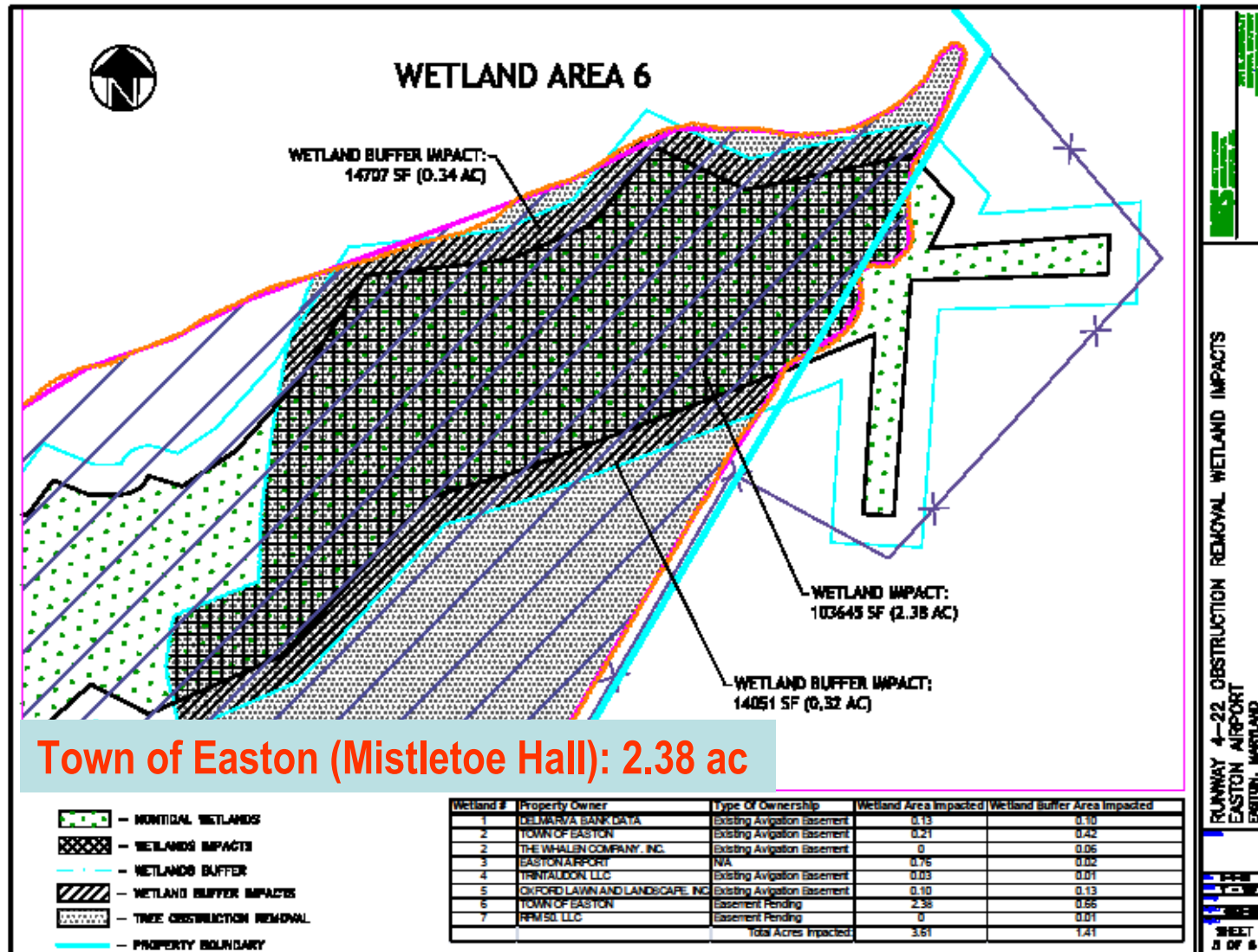
Wetland Impacts: Area 2



Wetland Impacts: Areas 3, 4, & 5



Wetland Impacts: Area 6

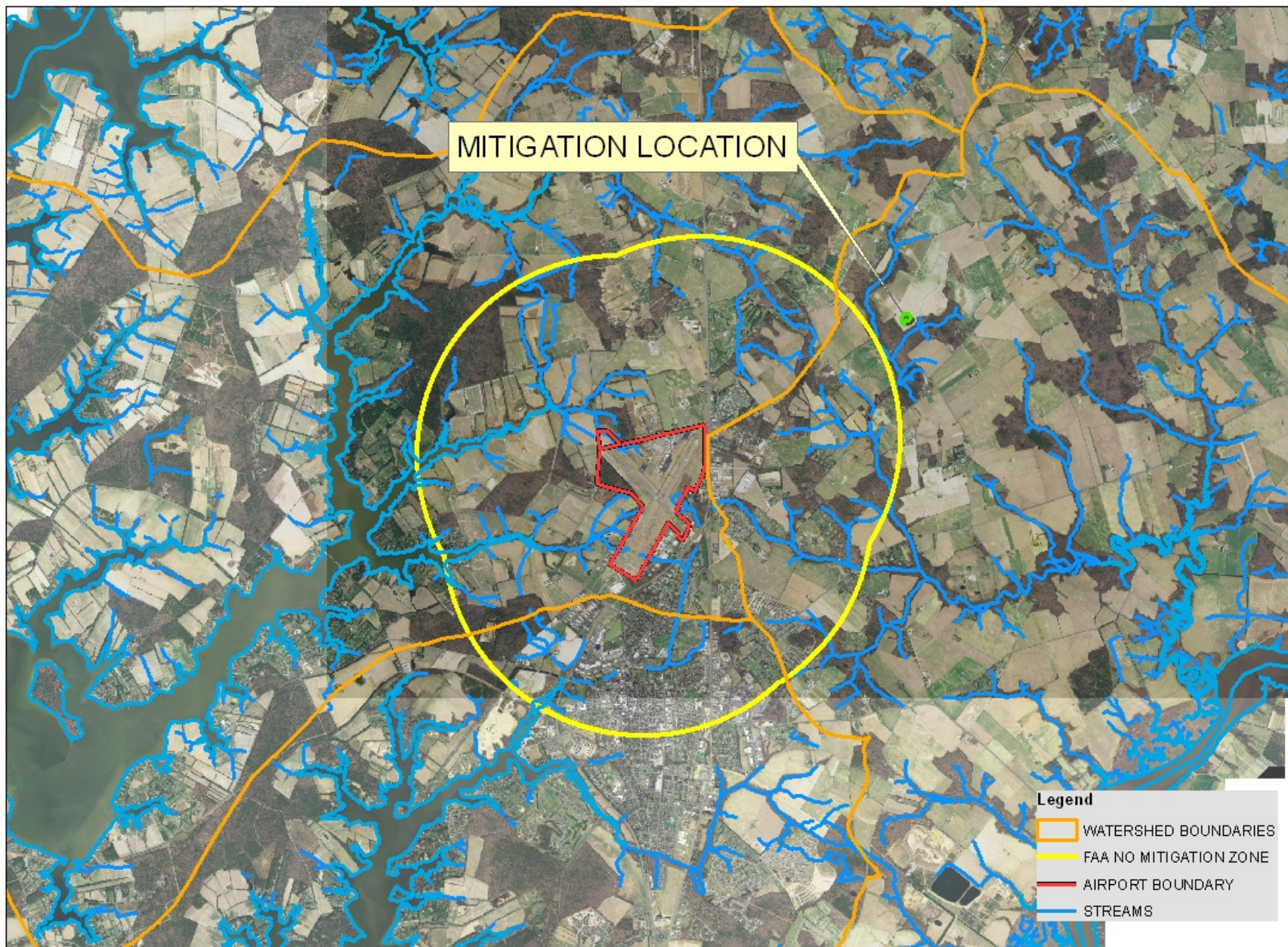


Mitigation

- **What is MITIGATION?** (per the Maryland Department of the Environment)
“Nontidal wetland mitigation is the creation, restoration, or enhancement of nontidal wetlands to compensate for nontidal wetlands that were or will be lost to regulated activities or non-exempt agricultural activities.”
- **What are the PROCEDURES for Mitigation?**
 - ✓ – Determine acreage and ratio
 - 3.61 acres - conversion of forested to emergent (actual impact is 3.58 ac)
 - ✓ – Locate mitigation sites
 - Public Bid Process September 2009
 - ✓ – Develop and submit Phase I Mitigation Plan to MDE
 - MDE decision of Phase I Mitigation Plan
 - Develop and submit Phase II Mitigation Plan to MDE
 - MDE issues decision
 - Create mitigation site; protect in perpetuity; monitor for 5 years

Mitigation

- **Acreage:** 3.61 acres of forested wetlands
- **Location:** Summerly Farm (Rabbit Hill Rd)
Talbot County
- **Owner:** Gannon Family Limited Partnership



APPROVED MITIGATION LOCATION IN RELATION TO EASTON AIRPORT

1" = 6000'



APPROVED MITIGATION LOCATION

1" = 300

URS

Environmental Concerns

- **Necessity of Removal**
 - 14 CFR Part 77
 - FAA Advisory Circular 150/5300-13, *Airport Design*
- **Methods of Removal**
 - Per discussions with regulatory agencies, topping of trees is NOT recommended
- **Reason for Removal**
 - To provide clear 14 CFR FAR Part 77 surfaces to existing Runway 4-22
- **Public Participation**
 - Environmental Assessment process provided opportunity for public participation
 - Public Hearing was held on March 27, 2003
 - Master Plan Update provided opportunity for public participation
 - Public Workshop was held on February 8, 2005
 - Wetland Permit Application providing opportunity for public participation
 - Public Hearing today (April 15, 2010)

Comments/Questions

